

TECHNICAL MANUAL

CONTACT MANAGER

Technical manual for “Contact Manager” desktop software. The software is used to store and manage contacts of multiple users reliably and with ease.

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Introduction

ABOUT THE DOCUMENT

The document enlists and explains the main features of the software, “Contact Manager”, so as to facilitate further development or modification in the software. This document explains each module and the interaction between different modules as simply as possible without leaving out any important technical details.

STRUCTURE OF THE DOCUMENT

There are five sections in this document including this one.

- Introduction
 - This section introduces the scope and structure of the document.
- Pre-requisites
 - This section introduces the technologies/tools used in developing the software and the requisites for developing it.
- Workflow
 - This section gives the basic connection and transfer of control between different modules.
- Modules and Functioning
 - This section contains details about the code structure and the functioning of the software
- Scope of Improvements
 - This section enlists some features that could be added or modified to make a better software. It may state the difficulties in implementing the features.

Development Environment

SOFTWARE AND TOOLS

The project was developed in Microsoft Windows operating system (Windows 7/8) using Microsoft Visual Studio 2010 and MySQL Server 5.6 Community Edition. All these software (or updated versions) are minimum requisites for further development/debugging of the software.

LANGUAGES

The languages used are Visual C++ for creating windows forms and MySQL for database operations. Basic knowledge of these languages is necessary for developing the software.

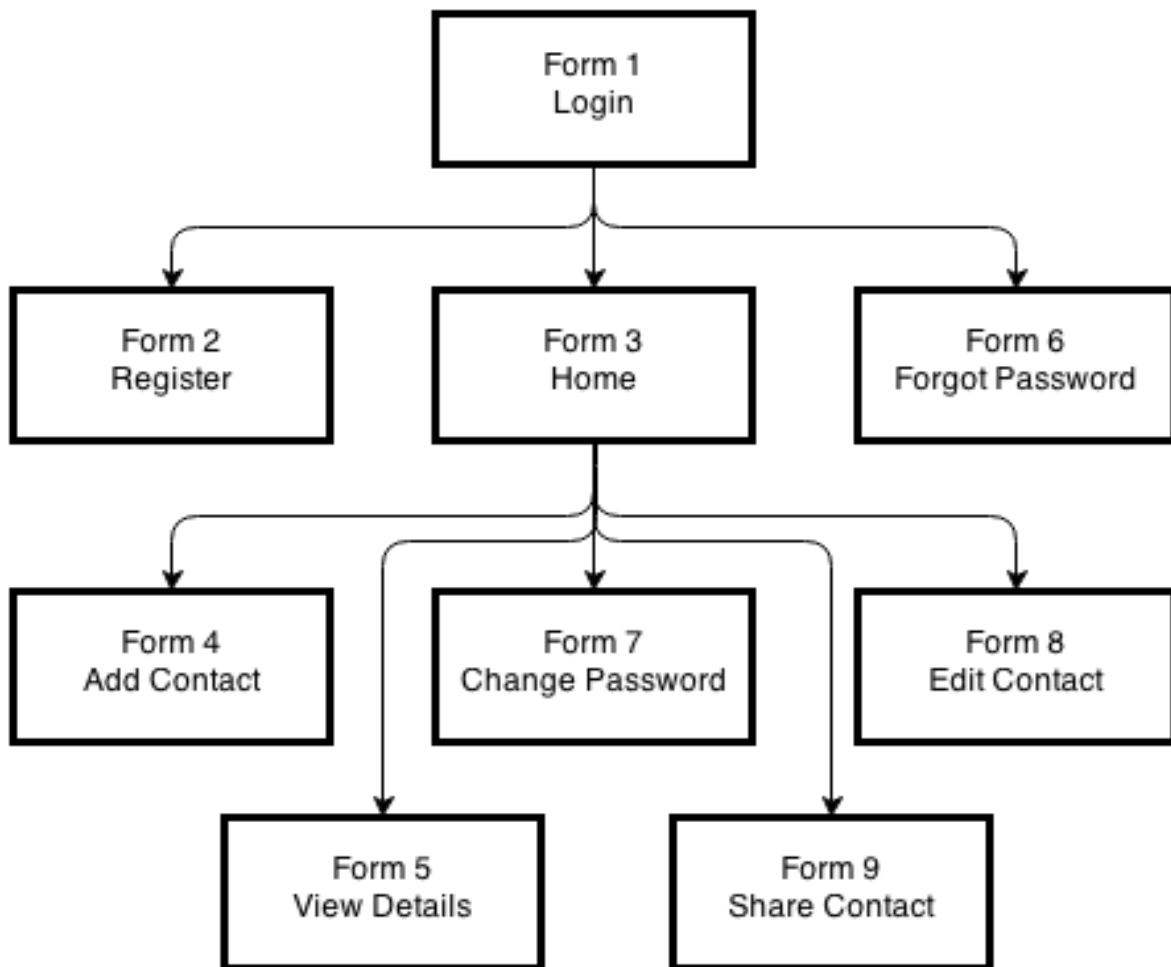
Workflow

OVERVIEW

There are a total of 9 windows forms in the software, each implementing a specific feature. Each form is independent of others (with respect to performing a job), except for the login data required (username).

FLOWCHART

Each Form can perform some functions/jobs or can transfer the control to some other form. The below given diagram displays the basic layout of the control of forms with arrows representing the transfer of control between the forms.



Modules and Functioning

DESCRIPTION OF FORMS

- Form 1 – Login
 - This form contains two input for username and password to login.
 - It also contains buttons for registering new user and resetting the password.
- Form 2 – Register
 - This form takes some basic details from the user to create a new account.
- Form 3 – Home
 - This form is the main central component holding the various components together.
 - It displays all contacts stored or contacts based on the search criteria.
 - It contains buttons to export or import contacts in custom format.
 - It contains buttons to transfer control to other forms which perform functions like sharing, editing or creating of contacts.
- Form 4 – Add Contact
 - This form takes various inputs regarding information of the new contact to be created.
 - It contains mandatory as well as optional fields (including image uploading for contact).
- Form 5 – View Details
 - This form displays various details of the contact, stored by user.
- Form 6 – Forgot Password
 - This form resets user's password by verifying the secret answer.
- Form 7 – Change Password
 - This form changes the password of the user to desired password verifying the old password.

- Form 8 – Share Contacts
 - This form shares the selected contacts to other users as desired by the user.
- Form 9 – Edit Contact
 - This form allows the user to modify any details corresponding to a user.

FUNCTIONING

Most of the code is written in a simple manner, with inline documentation where required. Event based programming is used i.e. operations are performed when events like clicking, hovering, etc. occur. Database operations are performed using Mysql.Data reference and related operations. Other operations involve various standard functions. Most of the work involves either database or file handling.

Scope of Improvements

FEATURE LIST

- Cloud synchronization
 - The contacts can be synced via cloud to enable the user to use software across multiple platforms without importing and exporting contacts.
- Better security
 - The data of user can be encrypted before it is stored, however this means user cannot reset his password once he loses it.
- Compatibility with Google Contacts and Microsoft Contacts.
 - This allows the user to integrate the different services to create a more reliable and useful product.
- Desktop integration
 - Notifications and Alerts can be showed on desktop when software is running in background.
 - Some desktop controls/gadgets can be made to facilitate easy usage of key features of software.
- Service Integration
 - User can email/message/call his contacts on Facebook, Skype, Gmail and other service providers (and maybe call/text to phone).

Contact Information

PEOPLE – TEAM 4

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